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90-210842/28 ORGAPLAN GMBH B05 C01

RGA-28.12.88 DE 3844-065-A

28.12.88-DE-844065 (05.07.90) A61k-31/70 Phormaceutical use of glycosidic iron complexes to treat anoemio esp. In piglets, made by reacting iron hydroxide and sugar in presence of alkali C90-091089

The use of glycosidic iron (II) or iron (III) complexes, proper by reacting iron (II) and/or iron (III) hydroxide with a tuan) reducing sugar in presence of alkali, as a pharmaceutical contain complexity with a superior contains a superior contai eat, opt, in combination with usual carriers and auxillaries.

MORE SPECIFICALLY

Sugars are alpha or beta-glucose or sucrose, and the compsn. may also include colloidal silicic acid (esp. a 'sipermate') to form a free-flowing mass. Vitamin B12. folic acid and/or succinic acid.

USE/ADVANTAGE

These complexes are used to treat anaemia, particularly in young pigs (by incorporation at 1-5 kg/tonne into the feed of mother saws).

They are simple and economical to prepare and handle.

BC(5-A3A, 7,-A2, 12-H1) 3

and are non-toxic. The Fe(III)-sucrose complex shows almost 100% resorption.

PREPARATION

The complexes are formed by reacting the hydroxide and sugar in m₁, alkaline soin, at 100-130°C (with evapa, of the water solvent). The complex is taken up in water and mixed with colloidal silicic acid until a free-flowing dry mass is produced. Alternatively, the complex is recovered from aq. soln, by spray drying.

EXAMPLE

A soln.of 6.95 g. FoSO₄.7II₂O in 300 ml water was treated with 0.5 g. ascorbic acid, stirred until colourless, then 10.6 g. Na₂CO₃ in 60 ml water added dropwise. The resulting Fe(OII)₂ was centrifuged off and rinsed with some water into 90 g. of the dry glucose syrup 01924. 1 g. NaOH was added and the mixt. heated slowly to 100°C.

As soon as the mass began to foam, 100 ml water were added and the black soln. cooled. It contained 14 mg Fe/ml

added and the black soln, cooled. It contained 14 mg Fe/ml and had pH 7.95.

All steps were done under N2. (9pp1251DAHDwgNo0/0).